

635/D:272
Jack Wilburn

COMPLETION REPORT

STABILIZATION OF FORT PICKENS

GULF ISLANDS NATIONAL SEASHORE

GULF BREEZE, FLORIDA 32561

CONTRACT NO. CX 5000-6-0704



NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Work Order No.
CX500060704
Fund Symbol

Park Gulf Islands National Seashore	Region Southeast	Year Programmed
Location in Park Fort Pickens Area	State(s) Florida	PCP No.
☒ Contract and/or ☐ Day Labor	County or Counties Escambia	Master Plan No.
Work Order Title Stabilization of Fort Pickens		Master Plan Corrected By
		As Built Drawings By
		Date Started March 22, 1976
		Date Completed July 29, 1977

DESCRIPTION OF FIXED ASSETS
(For completion by employee in charge of project)

TOTAL COSTS
(For completion by FFO)

220.5
215 - Historic Structures
Fort Pickens

Contract Price
\$555,370.24

TOTAL \$ 555,370.24

DISTRIBUTION	THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES		
No.	To	Submitted	Date:
		By: Ronald W. Bishop	4-20-82
		Title: Historical Architect	
		Approved	Date:
		By: John C. Garner, Jr.	4/20/82
		Title: Chief, Cultural Resource Management	
		COSTS VERIFIED	Date:
		BY	

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICEWork Order Number
CX 5000-6-0704

COMPOSITION OF COST FOR COMPLETION REPORT

Fund Symbol

Park

Region

Year Programmed

Gulf Islands National Seashore

SERO

Location in Park

Fort Pickens Area

Work Order Title

Stabilization of Fort Pickens

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE

(1) Personal Services.....

\$

(2) Travel.....

(3) Contract Work

\$555,370.24

(4) Supplies and Materials.....

(5) Other Direct Expenses.....

(6) Operation of Equipment.....

(7) Depreciation of Equipment.....

(8) Purchase of Construction Equipment.....

(9) Purchase of Other Accountable Equipment

(10) Other Costs:

(11) TOTAL COST CHARGED TO FFO FUNDS

xxxxxxxxxxx

\$

OTHER COSTS:

(12) PS&S, AP, and/or Facilitating Services @ _____ %.....

\$

(13) Inventory and Other Non-Fund Costs

(14) GROSS WORK ORDER COSTS

xxxxxxxxxxx

\$

LESS:

(15) Residual Value of Construction Equipment on Line 8

\$

(16) Other Credits

(17) NET COST OF FIXED ASSETS

xxxxxxxxxxx

\$

Identify other costs and other credits by line item entry, on an attached schedule, or explain in narrative.

NARRATIVE FOR COMPLETION REPORT
STABILIZATION OF FORT PICKENS
GULF ISLANDS NATIONAL SEASHORE
CONTRACT NUMBER - CX500060704

Fort Pickens, located on the western tip of Santa Rosa Island in the Florida Section of Gulf Islands National Seashore, is a large masonry structure erected in 1830-1832 to protect the Pensacola Navy Yard by defending the entrance into Pensacola Bay from the Gulf of Mexico.

Invitation for bids was issued December 10, 1975, by the Contracting and Property Management Division of the Southeast Regional Office.

The proposed work by this contract can be summarized under six broad categories as follows:

I. New structural work at variance with original building methods

1. Reinforced concrete retaining walls, South Front.
2. Reinforced concrete collar and retaining wall, North End of West Channel Front.

II. Removal of existing original fabric

1. Earth fill, brick pavements, breast-height wall and gun positions of North Front.
2. Loose and damaged masonry on the top surface of vaults of South End of West Channel Front.

III. Removal of existing non-historic fabric

1. Removal of masonry blocking in casemate walls, embrasure openings and door openings of North Front, North and Southeast Bastions, Tower Bastion and North End of West Channel Front.
2. Removal of concrete floors and related fill in floors of casemates in North End of West Channel Front.
3. Removal of steel ties and plates of vaulting over South End, West Channel Front.

IV. Removal of existing non-historic fabric

1. Parade wall of North End of West Channel Front, including partial removal and backfilling of earth cover of the terreplein.
2. Partial removal of existing brick in vaults, piers and archways of interior of North Front and resetting same with new matching brickwork.

3. Regularize the ruinous end sections of the North End of West Channel and North Fronts, the Southwest Bastion, the parade face of the South End, West Channel Front and parade side of standing remains of the South Front by removal of all loose masonry and filling in voids, cavities and cracks to insure water shedding of standing construction.

V. Repair of existing original fabric

1. Replacement of damaged brickwork of scarp walls and of vaulting, piers and walls of interior throughout the Main Works of Fort Pickens and of the pavements in North Front and in North and Southeast Bastions.
2. Partial rebuilding of sally port arches and of door openings of parade of North Front; reconstruction of embrasure openings in the South End, West Channel Front; North End, West Channel Front; and in the Tower Bastion. Restoration of structural integrity of embrasures, loopholes and other openings to the exterior scarps of all Bastions and of South and West Fronts.
3. Replacement of missing granite cordon of scarp walls of South End, West Channel Front; East Flank of Southwest Bastion. and of South Front. Replacement of damaged sections of granite cordon of Tower, Northeast and Southeast Bastions and repair of granite steps of staircase, North Front. Reset and rebuild damaged brick cordon of Northeast and Southeast Bastions. Repoint existing cordons, brick and granite throughout the Main Works, except Southwest Bastion.
4. Reactivate historic drains and provide replacement in kind of damaged drain spouts of North and West Channel Fronts and of Southwest and Tower Bastions.
5. Repoint and grout throughout walls of interior and exterior of Main Works.
6. Cap scarp walls of Tower Bastion, West Channel Fronts, Southwest Bastion and South Front.

VI, Protective Work

1. Waterproof exposed masonry surfaces of vaulting over South and West Channel Fronts.
2. Dampproof all exposed horizontal masonry surfaces of scarp and parade walls throughout the Main Works.
3. Fill and grade over collapsed vaults of South Front and remove fill and debris in casemates of South Front and Southwest Bastion and in area adjoining North End of West Channel Front.
4. Provide and install grills in embrasure and gate openings of the North and Southeast Bastion, Tower Bastion and of the West Channel Front.
5. Repair and/or replace stair rails of Tower Bastion and North Front staircases.

The contract documents No. 635/30,068 consist of 24 sheets.

Bids were received and opened on January 22, 1976. The lowest bidder was Zac Smith & Company of Pensacola, Florida. The amount bid was \$561,185.98. The Architect's estimated price range was from \$600,000 to \$700,000. Notice of award was issued February 18, 1976.

The Notice to Proceed was issued March 15, 1976, and March 23, 1976, was established as the first day of the contract.

Change Order Number 1 was issued April 8, 1976 - See Enclosure # 1.

Change Order Number 2 was issued June 18, 1976 - See Enclosure #2.

Change Order Number 3 was issued September 15, 1976 - See Enclosure #3.

Change Order Number 4 was issued December 4, 1976 - See Enclosure #4.

Change Order Number 5 was issued March 5, 1976 - See Enclosure #5.

Change Order Number 6 was issued May 18, 1977 - See Enclosure #6.

Change Order 7 was issued June 13, 1977 - See Enclosure #7.

The final inspection was conducted on July 28, 1977, and the work was completed substantially in accordance with the plans and specifications.

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

1

Southeast Regional Office

(Park)

Check One:

Monthly
Estimate

☐

Final
Estimate

☒

UNIT PRICE CONTRACT

ESTIMATE NO. 16		FOR (Period) 7-22-77 through 7-28-77		DATE 7-28-77	
CONTRACT NO. CX500060704		COMPLETION DATE 31 March 1977		EXTENDED DATE 29 July 1977	
CONTRACTOR Zac Smith & Company, Inc.				ORIGINAL CONTRACT \$ 561,185.98	
PROJECT Stabilization of Fort Pickens				CHANGE ORDERS* \$ 69,418.46	
LOCATION Santa Rosa Island				TOTAL CONTRACT* \$ 507,163.63	
ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
1a	1600 c.f.	Demolition of masonry A. Demolish & remove modern walls towards parade & in interiors of North Front, South Front & North End of West Channel Fronts. Remove blocking of embrasure openings throughout.	2,860.77	5.00	14,303.85
	6280 c.f.	B. Demolish section of parade wall of West Channel Front & masonry of North Front Terreplein. TOTAL OF A & B OF ITEM NO. 1	5,515.19	2.50	13,787.98
2	305 c.y.	Removal of debris & fill A. Remove debris & fill on vaults of South End of West Channel Front.	329.42	15.00	4,941.30
	220 c.y.	B. Remove debris & fill from interior of Southwest Bastion, South Front & from exterior of South Front, West End of North Front & North End of West Channel Front & of Sally Port.	986.16	10.00	9,861.60
	952 c.y.	C. Remove fill from Terrepleins of North Front & North End, West Channel Fronts.	1,720.50	15.00	25,807.50

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Check One:

Monthly
Estimate☐Southeast Regional Office

(Park)

Final
Estimate☒

UNIT PRICE CONTRACT

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CONTRACT NO. CX500060704	COMPLETION DATE 31 March, 1977	EXTENDED DATE 29 July 1977
CONTRACTOR Zac Smith & Company, Inc.		ORIGINAL CONTRACT \$561,185.98
PROJECT Stabilization of Fort Pickens		CHANGE ORDERS* \$ 69,418.46
LOCATION Santa Rosa Island		TOTAL CONTRACT \$507,163.63

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
		TOTAL OF A, B & C OF ITEM 2			
3	107 c.y.	Place fill on South Front & North End West Channel Fronts & grade.	519.07	15.00	7,786.05
4	1000 s.y.	Sod South Front & section of Terreplein & North End, West Channel Front. Sod areas of parade level of North End of West Channel Front & West End of North Front.	1,930.01	2.50	4,825.03
5	2940 c.f.	Masonry replacement of missing & damaged brickwork of cordons of South- east & Northeast Bastions, top sur- faces of breast-height wall of North End of West Channel Front, coping of parade wall of North Front & brick facing of parade wall North End West Channel Front.	4,711.12	11.46	53,989.44
6	2190 c.f.	Reinforced concrete retaining walls & collar including flashing expansion joint fillers, anchors etc.	6,135.75	10.00	61,357.50
7	1670 c.f.	A. Masonry replacement of brickwork of interior & parade walls of North Front.	2,152.98	11.46	24,673.15

Form 10-194
(Rev. 9/60)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Southeast Regional Office

(Park)

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Estimate☐Final
Estimate☒

UNIT PRICE CONTRACT

ESTIMATE NO. 16		FOR (Period) 7-22-77 through 7-28-77		DATE 7-28-77	
CONTRACT NO. CX500060704		COMPLETION DATE 31 March 1977		EXTENDED DATE 29 July 1977	
CONTRACTOR Zac Smith & Company, Inc.				ORIGINAL CONTRACT \$561,185.98	
PROJECT Stabilization of Fort Pickens				CHANGE ORDERS* \$ 69,418.46	
LOCATION Santa Rosa Island				TOTAL CONTRACT \$507,163.46	

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
7	1.f.	B. Granite lintels & sills of parade wall openings of North Front each 4'-8" X 7½" X 10"	7.0	50.00	350.00
8	40 s.f.	Replacement of missing section brick pavements of interiors of North Front	798.17	5.76	4,597.46
9	2330 c.f.	Relining of vaults, repair of arches & embrasures & restore sally port arch of North Front.	208.50	60.00	12,510.00
		c/o #6		Lump Sum	61,300.00
0	378 c.f. brk.	Rebuild embrasures 49B, 52B, 64B, & 67A with brick facing & a	334.21	23.76	7,940.83
	600 c.f. conc.	concrete core.	457.0	10.00	4,570.00
1	930 c.f.	A. Cap existing remains of Tower Bastion scarp walls in brick.	2,002.54	11.46	22,949.11
	21 1.f.	B. Replace damaged granite cordon of Tower Bastion as indicated on plans.	21.0	30.00	630.00
		TOTAL OF A&B OF ITEM 11			
2	2090 c.f. brk.	A. Rebuild scarp wall of South End of West Channel Front to	2,546.19	11.46	29,179.34

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Southeast Regional Office

(Park)

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Estimate☐Final
Estimate☒

UNIT PRICE CONTRACT

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CONTRACT NO. CX500060704		COMPLETION DATE 31 March 1977		EXTENDED DATE 29 July 1977	
CONTRACTOR Zac Smith & Company, Inc.				ORIGINAL CONTRACT \$561, 185.98	
PROJECT Stabilization of Fort Pickens				CHANGE ORDERS* \$ 69,418.46	
LOCATION Santa Rosa Island				TOTAL CONTRACT \$507,163.46	

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
	300 c.f. conc	level of cordon in brick facing & with concrete core & cap in brick.	-0-	-0-	-0-
	287 l.f.	B. Replace missing section of granite cordon.	281.0	30.00	8,430.00
		TOTAL OF A & B OF ITEM NO. 12			
13	760 c.f. brk.	A. Rebuild scarp wall of South & East sides	588.19	11.46	6,740.66
	995 c.f. conc	of Southwest Bastion & of South Front to level of cordon in brick facing & with concrete core (as applicable) & cap in brick.	920.0	10.00	9,200.00
	267 l.f.	B. Replace missing section of granite cordon of South & East sides of Southwest Bastion of South Front.	273.0	30.00	8,190.00
		TOTAL OF A & B OF ITEM NO. 13			
14	140 c.f. brk.	Masonry replacement of scarp walls of west	607.17	11.46	6,958.17
	80 c.f. conc	& North side of Southwest Bastion.	-0-	-0-	-0-

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

5

Southeast Regional Office

(Park)

Check One:

Monthly
Estimate☐Final
Estimate☒

UNIT PRICE CONTRACT

ESTIMATE NO. 16	FOR (Period) 7-22-77 through 7-28-77	DATE 7-28-77
CONTRACT NO. CX500060704	COMPLETION DATE 31 March 1977	EXTENDED DATE 29 July 1977
CONTRACTOR Zac Smith & Company, Inc.		ORIGINAL CONTRACT \$561,185.98
PROJECT Stabilization of Fort Pickens		CHANGE ORDERS* \$ 69,418.46
LOCATION Santa Rosa Island		TOTAL CONTRACT \$507,163.63

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
15	0050 s.f.	Regularize masonry surfaces of West End of North Front, parade face center section of South Front, parade & top surfaces of South End of West Channel Front & North side of North End of West Channel Front & of South-west Bastion.	5,234.90	7.05	36,906.05
16	Lump Sum	Install new counter flashing and repair all existing lead flashing to north front.	Lump Sum		5,926.00
17	57300 s.f.	Dampproof all exposed surfaces of regularized masonry & all exposed surfaces of brick cordons & brick cappings.	57,300.00	0.28	16,044.00
18	1940 l.f.	Calk & repoint all existing granite cordons of North, East, South & West Fronts & of Northeast, Southeast & Tower Bastions.	1,940.0	0.84	1,629.60
19	20.5 l.f.	c/o #5 Replace damaged sections of granite cordon of Northeast & Southeast Bastions as indicated on plans.	2,000.0 20.5	0.78 30.00	1,560.00 615.00
20	30450 l.f.	Spot repoint exterior of scarp and parade walls.	32,949.50	0.86	28,336.57

CITIZEN & DV

Southeast Regional Office
(Park)

Check One:

Monthly
Estimate ☐Final
Estimate ☒

UNIT PRICE CONTRACT

ESTIMATE NO. 16	FOR (Period) 7-22-77 through 7-28-77	DATE 7-28-77
CONTRACT NO. CX500060704	COMPLETION DATE 31 March 1977	EXTENDED DATE 29 July 1977
CONTRACTOR Zac Smith & Company, Inc.		ORIGINAL CONTRACT \$561,185.98
PROJECT Stabilization of Fort Pickens		CHANGE ORDERS* \$ 69,418.46
LOCATION Santa Rosa Island		TOTAL CONTRACT \$507,163.63

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
21	139.0	Change Order #4 Delete from Contract Spot repoint interior of Casemates.	139.0	0.86	119.54
22	1200 l.f.	Grout failure cracks throughout except for South End West Channel Front & Southwest Bastion & South Front.	1,200.00	5.54	6,648.00
23	3800 s.f.	Replace missing brick pavements of interior of Northeast, Southeast & Southwest Bastion as indicated by plans & schedules.	C/O #4 Delete from Contract		
24		Fabricate & install wrought iron grills & gates.			
	Each	5 Type I Grills	5	200.00	1,000.00
	Each	5 Type II Grills	5	200.00	1,000.00
	Each	2 Gates	2	1,000.00	2,000.00
		TOTAL OF ITEM 24			
25	Lump Sum	Fabricate & install stairrails of Tower Bastion & North Front.	Lump Sum		6,000.00
26	5980 s.f.	Gunite & plaster interiors of North Front.	5,980.0	1.68	10,046.40
27	27 Each	Fabricate & install drain spouts & lead gutting.	27 ea	200.00	5,400.00
		Payment for C/O # 1, 2 & 3 & 7			27,260.11

RECOMMENDED (Project Supervisor)

SUMMARY

APPROVED (Contracting Officer)

DATE

TOTAL TO DATE	\$ 555,370.24
LESS RETAINED AMOUNT.....	-0-
NET.....	555,370.24
LESS PREVIOUS PAYMENTS.....	482,949.90
LESS LIQUIDATED DAMAGES.....	-0-
DUE THIS ESTIMATE.....	72,420.34
% COMPLETED TO DATE:	
\$ Amt. 100%, Time 100%	

*Show Breakdown on Reverse

(See Reverse for Distribution)



com. file
United States Department of the Interior

NATIONAL PARK SERVICE
SOUTHEAST REGIONAL OFFICE

1895 Phoenix Boulevard
Atlanta, Georgia 30337

APR 8 1976

IN REPLY REFER TO:

D52-SER-ACP

CHANGE ORDER NO. 1

Zac Smith & Company, Inc.
General Contractors
P.O. Box 2272
Pensacola, Florida 32501

Attention: Zac Smith, President

Gentlemen:

In accordance with Article 3 (Changes) of the General Provisions of your Contract No. CX500060704 dated February 17, 1976, you are hereby directed to accomplish the following additional work.

As discussed at our recent preconstruction conference, we have a deficiency of information about the physical and chemical properties of Fort Pickens. A thorough study of this matter has revealed that the Law Engineering Testing Company of Atlanta, Georgia has the professional capability and resources necessary to investigate, complete laboratory testing, and to otherwise provide a comprehensive report on this historic structure.

Accordingly we have approved this firm as a subcontractor and hereby authorize you to proceed with that scope of work more specifically described under phase one of the revised proposal prepared by Law Engineering Testing Company under date of March 16, 1976 which is attached hereto and made a part of this directive. The work is to be carried out within the guidelines set forth in phase one under Paragraphs A through G.

You will be compensated on the basis of the fee schedule and payment shall be made upon receipt and acceptance of the final report supported by an itemized invoice covering the services actually rendered. The total contract cost of the engineering services as authorized under Items I, II, and III of the schedule is estimated to be \$10,780.00.

Since the engineering services will be carried out concurrent with other contract work, no additional time for performance will be allowed for this change.



Except as provided herein, all terms and conditions of this contract remain unchanged, in full force and effect.

You are hereby requested to acknowledge acceptance of this document in the space provided and return one signed copy to this office.

Sincerely yours,



Vernon Ingram
Chief, Contracting and Property
Management Division
(Contracting Officer)

Enclosure

Chief, Contracting and Property Management Division
National Park Service
1895 Phoenix Blvd.
Atlanta, Georgia 30349

Dear Sir:

We hereby acknowledge acceptance of Change Order No. 1.

Zac Smith & Company, Inc.

By: Zac Smith

Title: Zac Smith, President

Date: 13 April, 1976



United States Department of the Interior

NATIONAL PARK SERVICE
SOUTHEAST REGIONAL OFFICE

1895 Phoenix Boulevard
Atlanta, Georgia 30337
JUN 18 1976

IN REPLY REFER TO:
D52-SER-ACP

CHANGE ORDER NO. 7

Zac Smith & Company, Inc.
General Contractors
P.O. Box 2272
Pensacola, Florida 32501

Attention: Zac Smith, President

Gentlemen:

In accordance with Article 3 (Changes) of the General Provisions of your Contract No. CX500060704 dated February 17, 1976, you are hereby directed to accomplish the following additional work.

As discussed at our preconstruction conference and confirmed in Change Order No. 1, there is a need to supplement our information on the physical and chemical properties of the structure of Fort Pickens. Accordingly, you are hereby authorized to expand the scope of the work performed by your subcontractor, Law Engineering Testing Company of Atlanta, Georgia, to include the work described in the proposal for subsurface investigation, Phase II, under date of June 16, 1976 which is enclosed hereto and made a part of this directive.

You will be compensated on the basis of the fee schedule of the proposal and payment shall be made upon receipt and acceptance of the final report supported by an itemized invoice covering the services actually rendered. The total contract cost of Phase II of the engineering services as authorized under Items I, II, and III of the schedule is estimated to be \$8,000.00, including overhead and profit considerations.

Since these engineering services will be carried out concurrent with other contract work, no additional time for performance will be allowed for this change.



Except as provided herein, all terms and conditions of this contract remain unchanged, in full force and effect.

You are hereby requested to acknowledge acceptance of this document in the space provided and return one signed copy to this office.

Sincerely yours,



Vernon Ingram
Chief, Contracting and Property
Management Division
(Contracting Officer)

Enclosure

Chief, Contracting and Property Management Division
National Park Service
1895 Phoenix Boulevard
Atlanta, Georgia 30349

Dear Sir:

We hereby acknowledge acceptance of Change Order No. 1.

Zac Smith & Company, Inc.

By: Zac Smith

Title: President

Date: June 24, 1976 -

SEP 15 1976

D52-SLR-ACP

CHANGE ORDER NO. 3

Zac Smith & Company, Inc.
General Contractors
P.O. Box 2272
Pensacola, Florida 32501

Attention: Zac Smith, President

Gentlemen:

In accordance with Article 3 (Changes) of the General Provisions of your Contract No. CX500060704 dated February 17, 1976, you are hereby directed to accomplish the following additional work.

1. Item 7B change dimensions from 4'8" x 7 1/2" x 10" to 5' x 7 1/2" x 10".
2. Add 2.34 lin. ft. of 5' x 7 1/2" x 10" Granite Lintel to the quantity specified in Item 7B.
3. Furnish and install five (5) Granite Sills measuring 5' x 7 1/2" x 17" not previously specified.

You will be compensated for this additional work in the amount of \$1367.00. There will be no adjustment in the time of performance resulting from this change order.

All other terms and conditions of this contract remain unchanged, in full force, and effect.

You are hereby requested to acknowledge acceptance of this document as provided on the attached sheet and return one signed copy to this office.

Sincerely yours,

(Sgd.) Vernon Ingram

Vernon Ingram
Chief, Contracting and Property
Management Division
(Contracting Officer)

CHANGE ORDER NO. 3
CONTRACT NO. CX500060704

Chief, Contracting and Property Management Division
National Park Service
1895 Phoenix Blvd.
Atlanta, Georgia 30549

Dear Sir:

We hereby acknowledge acceptance of Change Order No. 3.

ZAC SMITH & COMPANY, INC.

BY: _____

TITLE: _____

DATE: _____

cc:
Supt., Gulf Islands
Eisel, Gulf Islands
SERO-AF
GJESSING, VI
VIngram:sp:9/15/76

DEC 3 1976

D52-SER-ACP

CHANGE ORDER NO. 4

CERTIFIED

Zac Smith & Company, Inc.
P.O. Box 2272
Pensacola, Florida 32501

Attention: Mr. Zac Smith

Gentlemen:

In accordance with Article 3 (Changes) of the General Provisions of your Contract No. CX590060704 dated February 17, 1976, you are hereby directed to perform additional work and to make such other changes in the project as specifically described below:

Item No. 6 of the Contract Bid Schedule covering reinforced concrete retaining walls and collar is hereby enlarged to provide for the following described work. On the south end of the west channel front where the existing steel ties and fish plates are to be removed, you shall replace them with reinforced concrete tie beams. The beams shall be cast in the existing cuts of the top surface of the vaulting in conformance with the design specifications shown on the attached drawing. After the removal of all loose and defective materials the voids will be filled with concrete and carried up to such an elevation that top surfaces of the vaults will have no pockets or depressions collecting water or debris and finished in such a manner that the top surface will drain south and north. This work is to be accomplished as specified by Section 03301, Concrete Work of your contract and as otherwise directed by Architect Gjessing in his memorandum of October 28, a copy of which was provided you by our Project Supervisor.

There will be a change in methodology for relining vaults, repair of arches, and other work covered by Item No. 9 of the Bid Schedule. Where the drawings and repair schedules for the north front call for relining of vaults, restoration or repair of arches, the existing damaged brick surfaces will be cleared of approximately six inches (6") of loose and spalling

material or to a sound and firm surface. After clearing apply reinforced (G.S. mesh) gunite in a thickness of two inches (2") or as required to achieve a smooth and even surface of the geometrical shape of the vaulting and arches. Apply an epoxy setting bed and set brick, cut and placed as required to simulate original construction. Cover only as much area at one time that will allow firm and complete adhesion of all bricks. Grout all joints with mortar and clean finished surfaces.

You shall eliminate the waterproofing over the west channel front covered by Item No. 16 of the Bid Schedule and include the waterproofing of uncovered vaults of the north front. Item No. 21, Spot Repoint Interior of Casemates and Item No. 23, Replace Missing Brick Pavements, etc., of the Contract Bid Schedule are eliminated in their entirety from the contract project.

You will be compensated for the additional work described herein for Items No. 6 and No. 16 at the existing unit prices of the Bid Schedule and as referenced below:

<u>Description of work</u>	<u>Est. Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
Concrete tie beams	2464 cu. ft.	\$10.00	\$24,640.00
Waterproof vault covering	5000 sq/ ft.	\$ 1.14	\$ 5,700.00

You will be compensated the lump sum of \$86,300.00 for the work accomplished under Item No. 9, described herein. This consideration is additional to the amount of \$12,510.00 previously paid for work completed under the original provisions of Item No. 9.

After appropriate consideration of the work changes described herein, this Change Order revises your contract amount to a net sum of \$507,044.09 ^{163.63} excluding overruns that have already occurred and any overruns that may develop throughout the course of the contract.

Because of the delicate nature of the additional work and the uncommon techniques involved in the new methodology, we hereby authorize sixty (60) additional calendar days for completion of the project. Accordingly, all work shall be completed on or before May 30, 1977.

You are hereby requested to acknowledge acceptance of this document in the space provided and return one signed copy to this office.

Sincerely yours,

Regd. T Vernon Ingram

Vernon Ingram
Chief, Contracting and Property
Management Division
(Contracting Officer)

Inclosure

Chief, Contracting and Property Management Division
National Park Service
1805 Phoenix Blvd.
Atlanta, Georgia 30349

Dear Sir:

We hereby acknowledge acceptance of Change Order No. 4.

Zac Smith & Company, Inc.

By: _____

Title: _____

Date: _____

cc:
Supt., Gulf Islands, FL
Eisel, Gulf Islands
Gjessing, VI
SERO-AF

VIngram:sp:12/2/76

DS2-SER-ACP

MAR 21 1977

CHANGE ORDER NO. 5

Zac Smith & Company, Inc.
General Contractors
P.O. Box 2272
Pensacola, Florida 32501

Attention: Zac Smith, President.

Gentlemen:

In accordance with Article 3 (Changes) of the General Provisions of your Contract No. CX500060704 dated February 17, 1976, you are hereby directed to perform additional work and to make such other changes in the project work as specifically described below:

Item No. 16 of the Contract Bid Schedule covering waterproofing was revised by Change Order No. 4 to eliminate the waterproofing of the West Channel Front and to add the waterproofing of the uncovered vaults of the North Front. These provisions are further revised by this order to change the methodology.

The previously specified waterproofing is eliminated in its entirety. In place of waterproofing the existing lead covering of the exposed vaults will be repaired, and where missing will be replaced. This work will consist of soldering all cuts and breaks in the lead and resoldering seams where required. Install new counterflashing where required and replace missing sections between the ridges of the vaulting over Casemates Nos. 37 - 38 and Nos. 6 - 7. Lead used in the new work is to be equal to and of the same weight as the existing lead. The work is to be accomplished in a manner that will ensure a waterproof condition of the area specified.

Your contract work is further expanded by this order to provide for caulking of expansion joints in the brick copings and parapets with a plastic non-staining caulking compound.

You will be compensated for the work described herein as follows:

<u>Description of Work</u>	<u>Est. Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
Delete Waterproofing	5000 sq.ft.	\$1.14 sq.ft.	Subtract \$5700.00
Lead Waterproofing and related work		Lump Sum	Add \$5926.00
Caulking	2000 lin.ft.	\$.78 lin.ft.	Add \$1560.00
Net contract change			\$1786.00

Since this work replaces requirements previously scheduled for completion, no additional time for performance will be authorized under this Change Order.

Except as provided herein, all terms and conditions of this contract remain unchanged, in full force and effect.

You are hereby requested to acknowledge acceptance of this document in the space provided and return one signed copy to this office.

Sincerely yours,

(Sgt.) Vernon Ingram

Vernon Ingram
Chief, Contracting and Property
Management Division
(Contracting Officer)

Enclosure

cc:
Supt., Gulf Islands, FL
Eisel, Gulf Islands, FL
Gjessing, VI
SERO-AF

VIngram: sp: 3/31/77

CHANGE ORDER NO. 5
CONTRACT NO. CX500060704

Chief, Contracting and Property Management Division
National Park Service
1895 Phoenix Boulevard
Atlanta, Georgia 30349

Dear Sir:

We hereby acknowledge acceptance of Change Order No. 5.

ZAC SMITH & COMPANY, INC.

BY: _____

TITLE: _____

DATE: _____

MAY 18 1977

NOI-SHM-ACP

CHANGE ORDER NO. 6

Zac Smith & Company
General Contractors
Post Office Box 2272
Pensacola, Florida 32501

Attention: Zac Smith, President

Gentlemen:

In accordance with Article 3 (Changes) of the General Provisions of your Contract No. CX300060704, dated February 17, 1976, you are hereby directed to make changes in the project work as specifically listed below.

You were previously directed by Change Order No. 4 to change the methodology for the accomplishment of work covered by Item No. 9 of the Contract Bid Schedule. The methodology as described will be specifically followed in the restoration of Casemate No. 1. However, you are hereby directed to modify the procedure for Casemates Number 2 and 3 by deleting the brick lining of the vaulting. In place of the brick lining you are to apply a plaster finish of the specified reinforced gunite.

Because of this deletion there will be a reduction in the lump sum amount for revised Item No. 9 of \$25,000.00. Accordingly, you will now be compensated for all work accomplished under revised Bid Item No. 9 the lump sum amount of \$61,000.00. There will be no change in the time of performance resulting from this directive. Therefore, your contract completion date remains June 29, 1977.

Except as provided herein, all provisions and conditions of your contract remain unchanged, in full force and effect.

You are hereby requested to acknowledge acceptance of this document in the space provided and return one signed copy to this office.

Sincerely yours,

(Sf) Vernon Ingram

Vernon Ingram
Chief, Contracting and Property
Management Division
(Contracting Officer)

Chief, Contracting and Property Management Division
National Park Service
1895 Phoenix Boulevard
Atlanta, Georgia 30349

Dear Sir:

We hereby acknowledge acceptance of Change Order No. 6.

Zac Smith & Company

By: _____

Title: _____

Date: _____

cc:
Supt., GUIS, FL
Project Supr., Eisel
Architect Ghesssing
SERD-AF

VIngram:lc:5/18/77

052-SER-ACP

1977

CHANGE ORDER NO. 7

Zac Smith & Company
General Contractors
P.O. Box 2272
Pensacola, Florida 32501

Attention: Zac Smith, President

Gentlemen:

In accordance with Article 3 (Changes) of the General Provisions of your Contract No. CX500060704, dated February 17, 1976, you are hereby directed to make changes in the project work as specifically listed below:

Grade the existing fill of approximately 4000 sq. ft. in the Terreplein of the Southwest Bastion. Remove the fill entirely from the area over the cisterns. Spray the area with an approved fungicide, put down Visqueen with not less than 8" overlap and cover with 3" of shell material.

Items No. 3 and 4 of the Bid Schedule requires you to place fill, fine grade and sod the South Front. As a supplement to this work you are hereby directed to install a sprinkler irrigation system. The system is to cover the parade area between the end of Bastion D, the North end of the West channel front and the South front ruins area. The system is to consist of 13 rainbird 15111 pop-ups and 13 GL 7200 sprayer pop-ups. It must be installed so as to provide complete coverage to the area specified. The system will operate manually from a water tap provided by the park. Pipe shall be PVC Schedule 160PS1, 3" to the South area and 2" and 1 1/2" on other lateral runs. The system is to be warranted for one year.

You will be compensated as follows for the work described herein:

Item 1	Est. Quan. - 4000 sq. ft.	Lump Sum	\$ 7,100.00
Item 2	1 System	Lump Sum	4,764.00
Not Contract Increase			<u>\$11,864.00</u>

There will be no change in the time of performance resulting from this directive. However, we have noted that you reserve the right to claim an extension as circumstances may require. Accordingly, your contract completion date remains June 29, 1977.

Except as provided herein, all provisions and conditions of your contract remain unchanged, in full force and effect.

You are hereby requested to acknowledge acceptance of this document in the space provided and return one signed copy to this office.

Sincerely yours,

(Sgd.) Vernon Ingram

Vernon Ingram
Chief, Contracting and Property
Management Division
(Contracting Officer)

Chief, Contracting and Property Management Division
National Park Service
1895 Phoenix Boulevard
Atlanta, Georgia 30349

Dear Sir:

We hereby acknowledge acceptance of Change Order No 7.

Zac Smith and Company

By: _____

Title: _____

Date: _____

cc:

Supt., Gulf Islands, FL
Eisel, Gulf Islands, FL
Gjessing, VI
SERO-AF
VIngramLsp:6/10/77